

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (currently amended) An inorganic-organic hybrid film-coated stainless steel foil for an electrically insulating substrate material, comprising a stainless steel foil substrate having coated on one surface or both surfaces thereof an inorganic-organic hybrid film, wherein said inorganic-organic hybrid film comprises a skeleton formed of an inorganic three-dimensional network structure mainly comprising a siloxane bond, with at least one crosslinked oxygen of said skeleton being replaced by an organic group and/or a hydrogen atom, and the ratio $[H]/[Si]$ between hydrogen concentration $[H]$ (mol/l) and silicon concentration $[Si]$ (mol/l) in said film satisfies the condition of $0.3 \leq [H]/[Si] \leq 10$;

wherein ~~the~~ a thickness T_f of said inorganic-organic hybrid film satisfies the condition $0.5 \mu\text{m} \leq T_f \leq 2 \mu\text{m}$; ~~and~~

wherein the thickness T_f of said inorganic-organic hybrid film and ~~the~~ a thickness T_s of said stainless steel foil substrate satisfy the condition of $T_f \leq T_s/40$; and

wherein the thickness T_f of said inorganic-organic hybrid film and an average roughness R_{as} of the surface of said stainless steel foil substrate satisfy the condition of $R_{as} \leq T_f/2$.

2. (original) The inorganic-organic hybrid film-coated stainless steel foil as claimed in claim 1, wherein said organic group is one or more member selected from an alkyl group, an aryl group, a hydroxyl group, a carboxyl group and an amino group.

3 (previously presented): The inorganic-organic hybrid film-coated stainless steel foil as claimed in claim 1, wherein the average roughness R_{af} of the surface of said inorganic-organic hybrid film satisfies the condition of $R_{af} \leq 0.02 \mu\text{m}$.

Claims 4 -17: (canceled).

18. (new) The inorganic-organic hybrid film-coated stainless steel foil as claimed in claim 1, wherein the thickness T_f of said inorganic-organic hybrid film and the average roughness R_{as} of the surface of said stainless steel foil substrate satisfy the condition of $R_{as} \leq T_f/10$.

19. (new) The inorganic-organic hybrid film-coated stainless steel foil as claimed in claim 1, wherein the thickness T_f of said inorganic-organic hybrid film and the average roughness R_{as} of the surface of said stainless steel foil substrate satisfy the condition of $R_{as} \leq T_f/20$.

20. (new) The inorganic-organic hybrid film-coated stainless steel foil as claimed in claim 1, wherein the thickness T_s of said stainless steel foil substrate has a thickness of 100 μm or less.

21. (new) The inorganic-organic hybrid film-coated stainless steel foil as claimed in claim 1, wherein the thickness T_s of said stainless steel foil substrate has a thickness of 10 to 100 μm .